

**Annex 3E. Carbon Dioxide from Liming (IPCC 3C2)**  
**to the Technical Support Document for the 2000-2011 California's Greenhouse Gas**  
**Emissions Inventory**

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**Variables Used in the Emissions Estimation Equations**

*Values last updated on Thursday, August 01, 2013*

**IPCC category = 3C2 — Aggregate Sources and Non-CO<sub>2</sub> Emissions Sources on Land - Liming**

**Activity = Dolomite applied to soils**

<b>- Variable Name -</b>	<b>- Year -</b>	<b>- Value and Units -</b>	<b>- Reference -</b>
Dolomite applied to soils	2000	5.47 Gg (thousand tonnes)	Calculation, see text
Dolomite applied to soils	2001	3.1 Gg (thousand tonnes)	Calculation, see text
Dolomite applied to soils	2002	4.69 Gg (thousand tonnes)	Calculation, see text
Dolomite applied to soils	2003	4.89 Gg (thousand tonnes)	Calculation, see text
Dolomite applied to soils	2004	17.58 Gg (thousand tonnes)	Calculation, see text
Dolomite applied to soils	2005	15.07 Gg (thousand tonnes)	Calculation, see text
Dolomite applied to soils	2006	4.3 Gg (thousand tonnes)	Calculation, see text
Dolomite applied to soils	2007	2.3 Gg (thousand tonnes)	Calculation, see text
Dolomite applied to soils	2008	2.77 Gg (thousand tonnes)	Calculation, see text
Dolomite applied to soils	2009	3.06 Gg (thousand tonnes)	Calculation, see text
Dolomite applied to soils	2010	6.69 Gg (thousand tonnes)	Calculation, see text
Dolomite applied to soils	2011	3.54 Gg (thousand tonnes)	Calculation, see text
Dolomite C emission factor	2000	0.13 g / g	IPCC, 2006e
Dolomite C emission factor	2001	0.13 g / g	IPCC, 2006e
Dolomite C emission factor	2002	0.13 g / g	IPCC, 2006e
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Dolomite C emission factor	2009	0.13 g / g	IPCC, 2006e
Dolomite C emission factor	2010	0.13 g / g	IPCC, 2006e
Dolomite C emission factor	2011	0.13 g / g	IPCC, 2006e
Total dolomite sold or used in CA	2000	256 Gg (thousand tonnes)	USGS, various years a
Total dolomite sold or used in CA	2001	234 Gg (thousand tonnes)	USGS, various years a
Total dolomite sold or used in CA	2002	316 Gg (thousand tonnes)	USGS, various years a
Total dolomite sold or used in CA	2003	250 Gg (thousand tonnes)	USGS, various years a
Total dolomite sold or used in CA	2004	895 Gg (thousand tonnes)	USGS, various years a
Total dolomite sold or used in CA	2005	494.5 Gg (thousand tonnes)	USGS, various years a
Total dolomite sold or used in CA	2006	94 Gg (thousand tonnes)	USGS, various years a
Total dolomite sold or used in CA	2007	102 Gg (thousand tonnes)	USGS, various years a
Total dolomite sold or used in CA	2008	210 Gg (thousand tonnes)	USGS, various years a
Total dolomite sold or used in CA	2009	131 Gg (thousand tonnes)	USGS, various years a
Total dolomite sold or used in CA	2010	226 Gg (thousand tonnes)	USGS, various years a
Total dolomite sold or used in CA	2011	125.33 Gg (thousand tonnes)	USGS, various years a
Total lime applied to ag soils in CA	2000	603.37 Gg (thousand tonnes)	CDFA, various years
Total lime applied to ag soils in CA	2001	369.72 Gg (thousand tonnes)	CDFA, various years
Total lime applied to ag soils in CA	2002	530.24 Gg (thousand tonnes)	CDFA, various years
Total lime applied to ag soils in CA	2003	542.49 Gg (thousand tonnes)	CDFA, various years
Total lime applied to ag soils in CA	2004	534.14 Gg (thousand tonnes)	CDFA, various years
Total lime applied to ag soils in CA	2005	676.39 Gg (thousand tonnes)	CDFA, various years
Total lime applied to ag soils in CA	2006	1.1 Tg (million tonnes)	CDFA, various years
Total lime applied to ag soils in CA	2007	583.25 Gg (thousand tonnes)	CDFA, various years
Total lime applied to ag soils in CA	2008	388.29 Gg (thousand tonnes)	CDFA, various years

## Variables Used in the Emissions Estimation Equations

Values last updated on Thursday, August 01, 2013

Total lime applied to ag soils in CA	2009	385.92 Gg (thousand tonnes)	Assume equal to previous year
Total lime applied to ag soils in CA	2010	403.08 Gg (thousand tonnes)	Assume equal to previous year
Total lime applied to ag soils in CA	2011	391.05 Gg (thousand tonnes)	Assume equal to previous year
Total limestone sold or used in CA	2000	28 Tg (million tonnes)	USGS, various years a
Total limestone sold or used in CA	2001	27.7 Tg (million tonnes)	USGS, various years a
Total limestone sold or used in CA	2002	35.4 Tg (million tonnes)	USGS, various years a
Total limestone sold or used in CA	2003	27.5 Tg (million tonnes)	USGS, various years a
Total limestone sold or used in CA	2004	26.3 Tg (million tonnes)	USGS, various years a
Total limestone sold or used in CA	2005	21.7 Tg (million tonnes)	USGS, various years a
Total limestone sold or used in CA	2006	24 Tg (million tonnes)	USGS, various years a
Total limestone sold or used in CA	2007	25.8 Tg (million tonnes)	USGS, various years a
Total limestone sold or used in CA	2008	29.2 Tg (million tonnes)	USGS, various years a
Total limestone sold or used in CA	2009	16.4 Tg (million tonnes)	USGS, various years a
Total limestone sold or used in CA	2010	13.4 Tg (million tonnes)	USGS, various years a
Total limestone sold or used in CA	2011	13.7 Tg (million tonnes)	USGS, various years a

### Activity = Limestone applied to soils

- Variable Name -	- Year -	- Value and Units -	- Reference -
Limestone applied to soils	2000	597.9 Gg (thousand tonnes)	Calculation, see text
Limestone applied to soils	2001	366.62 Gg (thousand tonnes)	Calculation, see text
Limestone applied to soils	2002	525.55 Gg (thousand tonnes)	Calculation, see text
Limestone applied to soils	2003	537.6 Gg (thousand tonnes)	Calculation, see text
Limestone applied to soils	2004	516.56 Gg (thousand tonnes)	Calculation, see text
Limestone applied to soils	2005	661.32 Gg (thousand tonnes)	Calculation, see text
Limestone applied to soils	2006	1.1 Tg (million tonnes)	Calculation, see text
Limestone applied to soils	2007	580.95 Gg (thousand tonnes)	Calculation, see text
Limestone applied to soils	2008	385.52 Gg (thousand tonnes)	Calculation, see text
Limestone applied to soils	2009	382.87 Gg (thousand tonnes)	Calculation, see text
Limestone applied to soils	2010	396.39 Gg (thousand tonnes)	Calculation, see text
Limestone applied to soils	2011	387.5 Gg (thousand tonnes)	Calculation, see text
Limestone C emission factor	2000	0.12 g / g	IPCC, 2006e
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Limestone C emission factor	2002	0.12 g / g	IPCC, 2006e
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Total lime applied to ag soils in CA	2007	583.25 Gg (thousand tonnes)	CDFA, various years
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